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Chairperson

Facilitator

Commander's Environmental Management Review Board (CEMRB)

10 December 2013



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Agenda

- *Environmental Awards*
- *MCIPAC and Installation-Level Environmental Management Systems (EMS)*
- *Current Status of EMS*
- *MCIPAC Environmental Policy Statement*
- *Status of FY13 Objectives and Targets*
- *FY14 Proposed Objectives and Targets (MCB Butler)*
- *FY13 Benchmark Environmental Compliance Evaluation (ECE) Status*
- *How Commanders Can Help*

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Environmental Awards

- MCB Butler
 - 2013 Secretary of Defense Environmental Award for Environmental Quality, Overseas Installation
- MCB Hawaii
 - 2013 Secretary of Defense Environmental Award for Cultural Resources Management, Individual/Team: June Cleghorn
- MCIPAC installations won 2 of 9 DoD Environmental awards in 2013.

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MCIPAC and Installations

- EMS is required by Executive Order and Marine Corps Order
- MCIPAC EMS
 - MCIPACO 5090.1 EMS
 - MCIPAC Environmental Policy Statement
 - MCIPAC EMS Core Team
 - Annual Management Review (CEMRB)
- Installation-Level EMS (Butler, Iwakuni, Fuji, Mjuk, Hawaii)
 - Risk Ranking
 - Objectives and Targets
 - Operational Controls (SOPs, etc)
 - Checking and Corrective Action (ECEs)
 - Cross Functional Teams

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MCIPAC EMS Status

- MCB Butler
 - Fully implemented EMS since 2007
- MCAS Futenma
 - Fully Implemented as part of MCB Butler EMS
- MCB Hawaii
 - Fully implemented EMS since 2007
- MCAS Iwakuni
 - Fully implemented EMS since 2007
- CATC Camp Fuji
 - Declared conformance in Sept 2013
- Camp Mujuk
 - EMS implemented in 2013 with assistance from MCIPAC
 - Declared conformance in Sept 2013

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MCIPAC

Environmental Policy Statement

- Signed in September 2013
- Translated into Japanese and Korean



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MARINE CORPS INSTALLATIONS PACIFIC ENVIRONMENTAL POLICY

The natural environment is a key asset to the mission of Marine Corps Installations Pacific (MCIPAC). MCIPAC's policy is to enhance the Marine Corps by incorporating environmental compliance, efficient natural resources management practices and the interests of the local community into mission execution. To this end, we will always strive to protect and preserve the land, water, air, and cultural resources within our cognizance by doing the following:

- Complying with all applicable environmental legislation, Final Governing Standards, regulations and policy
- Implementing pollution prevention through source reduction and recycling
- Conserving natural resources and preserving cultural resources
- Implementing sustainability initiatives
- Minimizing risk to mission
- Conducting appropriate review of potential environmental impacts of all Federal actions

Operational readiness is the hallmark of the Marine Corps and environmental compliance is the key to sustaining and enhancing mission readiness and access to training environments. MCIPAC is committed to promoting responsible stewardship while continually improving environmental performance through an effective and efficient Environmental Management System (EMS).

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COMMANDING GENERAL, MARINE CORPS INSTALLATIONS PACIFIC

EMS-01.6

Sep 2013



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米海兵隊太平洋基地 (MCIPAC) 環境方針

米海兵隊太平洋基地の任務において、自然環境は重要な財産です。米海兵隊太平洋基地の環境方針は、環境関連法規の遵守、自然環境の効率的な管理、及び地域社会の関心を海兵隊の任務遂行に統合していくことにより、海兵隊を強化することを目的としています。そして、以下のような方針を策定することにより、海兵隊施設内の土地、水、大気、文化財等の資源を保護及び保全していくことに常に努めることを基本理念としています。

- 該当する環境関連法規、環境管理基準（日本国内ではJIS規格に該当）、規則及び方針を順守します。
- 排出削減とリサイクルを通じて、汚染防止を策定します。
- 自然環境の保全と文化財の保護に努めます。
- 持続可能性を実現するための取り組みを実施します。
- 環境への負荷を抑えることで、任務に与える影響を最小限にします。
- 連邦政府の活動から派生すると考えられる環境負荷に対し、適切な検討を行います。

作戦即応能力は海兵隊の真髄であり、その即応能力及び訓練環境の維持・向上を図るために環境関連法規を順守していくことは重要で、米海兵隊太平洋基地は、責務を果たすと同時に、効果的且つ効率的な環境マネジメントシステム（EMS）を通じて環境負荷の継続的な軽減に取り組むことを約束します。

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COMMANDING GENERAL, MARINE CORPS INSTALLATIONS PACIFIC

EMS-01.6

Sep 2013



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미해병대 태평양기지사령부 환경정책 성명서

자연환경은 미해병대 태평양기지사령부 (MCIPAC) 의 임무에 부여된 중요한 자산입니다. 미해병대 태평양기지사령부는 전통적이고, 효율적인 자연자원 관리 및 지역사회의 관심사항을 임무수행 항목에 포함시켜 실천해 나갈으로써 해병대를 더욱 강화시켜 나갈 것입니다. 이를 위해, 우리는 우리 관할 지역내의 토지, 물, 대기 및 문화적 자원과 보호와 보존을 추구하기 위해 다음과 같은 정책을 시행해 나 갈 것입니다.

- 환경관련 법률, 정부의 기존 및 규정과 정책을 준수
- 자원 절약 및 재사용을 통해 환경오염 예방을 실행
- 자연자원을 보호하고 문화유산을 보존
- 지속가능한 운영수행을 실행
- 임무 수행의 위험성을 최소화
- 모든 연방조직들이 환경에 미칠 영향에 대하여 적절한 검토를 시행

해병대의 위상은 작전태세 관리와 환경규제 준수로 입증되고, 이는 임무태세 유지 및 장과와 훈련작전에 참여가 중요한 핵심입니다. 미해병대 태평양기지사령부는 효과적이고 효율적인 환경관리시스템(EMS)을 통하여 환경에 대한 업무를 추진시킴으로써 환경에 대한 목표를 완수합니다.

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COMMANDING GENERAL, MARINE CORPS INSTALLATIONS PACIFIC

EMS-01.6

Sep 2013

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MCB Butler Status

FY13 EMS Objectives & Targets

Objective 1: Reduce the impact of solid waste generation.	
Target	Status
1. Divert 60% of non-hazardous solid waste from the waste stream in FY13.	Exceeded FY13 target with diversion rate of approximately 66%
2. Divert 56% of construction and demolition (C&D) debris from the waste stream by FY13.	<ul style="list-style-type: none">• Still working with ROICC and Army Corps to collect C&D data.• Japanese law requires over 90% diversion.

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MCB Butler Status

FY13 EMS Objectives & Targets

Objective 2: Reduce electricity use in buildings.	
Target	Status
Reduce energy intensity of facilities by 37.5% by FY20 using FY03 as baseline (FY13 Target: 3% reduction from FY12).	<ul style="list-style-type: none">• FY13 energy intensity has been reduced by 1.15% from FY12• Overall energy intensity reduction from FY03 baseline at the end of FY13 is 4.35%• MCB Butler has to reduce over 30% more in the next 7 years

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MCB Butler Status

FY13 EMS Objectives & Targets

Objective 3: Reduce vehicle fuel consumption and air emissions.	
Target	Status
<p>Reduce use of petroleum products in vehicle fleets by 30% by FY20 using 2005 as baseline (FY13 Target: <u>2%</u> from FY12).</p> <ul style="list-style-type: none">• 13514; <i>Federal Leadership in Environmental, Energy, and Economic Performance</i>; was signed on October 5, 2009• Reducing petroleum consumption in agency fleets of 20 or more 2% annually through fiscal year 2020 relative to a fiscal year 2005 baseline.• Current Fleet = 1321 assets	<ul style="list-style-type: none">• Did not meet target this year. Fuel consumption increased by 1.22% in FY13.• FY13 Increase is being researched.• <u>Overall, since 2005, using 2% annual reduction, MCB Butler has exceeded standard with an overall 21% reduction in consumption.</u>

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MCB Butler Status

FY13 EMS Objectives & Targets

Objective 4: Reduce hazardous material usage and hazardous waste disposal.

Target	Status
Implement Hawker battery reuse program.	<ul style="list-style-type: none">• Full implementation of (2) battery rejuvenation units completed in August 2013, (3) additional units will be operational early next year.• 111 batteries rejuvenated and some already distributed to units under REUSE. (no cost)• Cost avoidance to units was \$36K for the first 3 months of operation (with 2 battery rejuvenation units)• Additional battery types have been added to the program.

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MCB Hawaii Status

FY13 EMS Objectives & Targets

Objective 1: Use of sustainable environmental practices	
Target	Status
Purchase bioremediation parts washers to replace solvent tanks by Sept 2013	<ul style="list-style-type: none">• Action completed September 2013.• Bio-Circle parts washers (available at GSA Servmart) were installed at armories and solvent tanks were removed.• Bioremediation liquid is reusable; unlike solvents which require disposal as waste.

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MCB Hawaii Status

FY13 EMS Objectives & Targets

Objective 2: Reduce acquisition of hazardous chemicals and Increase diversion of solid waste	
Target	Status
Recondition and reuse tactical vehicle batteries by 2013	<ul style="list-style-type: none">• Action completed 2013.• Battery Reconditioning System installed at HAZMIN Center in 2009 and electrical upgrades in 2013 increases ability to recondition Hawker batteries for reuse.• FY2013 Totals: Reclaimed 119 batteries for reuse.

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MCB Hawaii Status

FY13 EMS Objectives & Targets

Objective 3: Increase use of non-petroleum fuels for motor vehicles	
Target	Status
Increase non-petroleum fuel use by 10% annually baseline 2008	<ul style="list-style-type: none">• Action completed.• Use of non-petroleum-based (electricity, bio-diesel, ethanol, and hydrogen) fuel for fleet vehicles increased by an average of 10.28% annually based on 2008-2013 data.

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MCAS Iwakuni Status

FY13 EMS Objectives & Targets

Objective 1: Improve air quality on the Air Station	
Target	Status
1. Remove halon from MAG-12 ECUs, replace with non-halon substitute and turn in halon to DLA Yokosuka.	<ul style="list-style-type: none">• Target completed in early 2013.• All Halon Fire Extinguishers were turned into Yokosuka DLA in October 2012.
2. Replace MCCA fleet vehicles over the next two years with vehicles using non-ODS refrigerant.	<ul style="list-style-type: none">• Target completed in early 2013.• All vehicles with R-12 were replaced before 12/31/12

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MCAS Iwakuni Status

FY13 EMS Objectives & Targets

Objective 2: Improve storm water quality on the Air Station.	
Target	Status
1. Redirect washing operations to the sanitary sewer by installing either a portable pumping system or facilitating use of existing wash rack areas.	Target not met in FY13. Looking at solutions that can be implemented this FY.
2. Redirect washing operations to the sanitary sewer by installing a portable pumping system at the Commissary.	Target not met due to funding issues.

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CATC Camp Fuji Status FY13 EMS Objectives & Targets

Objective 1: Reduce the impact of solid waste generation	
Target	Status
Divert 50% of non hazardous solid waste from the waste stream by FY15 (FY13 Target: 30%)	Exceeded target. Diverted ~76%.

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CATC Camp Fuji Status FY13 EMS Objectives & Targets

Objective 2: Reduce electricity use	
Target	Status
Reduce energy intensity of facilities by 37.5% by FY20 using FY03 as baseline (FY13 Target: 3% reduction from FY12).	Target not met. Energy intensity increased by 4.34% compared to FY12.

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CATC Camp Fuji Status FY13 EMS Objectives & Targets

Objective 3: Reduce vehicle fuel consumption and air emissions

Target	Status
Reduce use of petroleum products by vehicle fleets by 20% by FY20 using 2011 as baseline (FY13 Target 3% from FY12).	Exceeded target. Fuel consumption for vehicles reduced by 13.2% compared to FY12.

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CATC Camp Fuji Status FY13 EMS Objectives & Targets

Objective 4: Reduce impacts of leaks and spills from vehicle operations

Target	Status
Reinforce and inspect procedures requiring spill kits in all government vehicles and notify the incoming Marines how to respond to spills and handle hazardous waste.	<ul style="list-style-type: none">• Spill kits were added to all government vehicles.• During the new join brief, all incoming Marines were notified how to respond to spills and handle hazardous waste.

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Camp Mujuk Status

FY13 EMS Objectives & Targets

Objective 1: Develop and implement EMS	
Target	Status
Establish Camp Mujuk's initial EMS by 2013.	<ul style="list-style-type: none">• EMS Coordinator completed EMS Lead Auditor training• Developed and implemented EMS Manual• Completed 2013 practice inventory and risk ranking

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Camp Mujuk Status

FY13 EMS Objectives & Targets

Objective 2: Implement Environmental Compliance	
Target	Status
Using MCICOM FY13 Benchmark ECE findings, prioritize the development and implementation of environmental compliance actions.	<ul style="list-style-type: none">• Beginning to receive job-specific required training• Implemented monitoring and analysis of water quality• Implemented monitoring of treated wastewater• Radon sampling initiated by MCIPAC• Established AUL for management of HAZMAT• Completed PCB sampling of all Transformer (PCB-free)

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MCB Butler (Proposed)

FY14 EMS Objectives & Targets

Objectives	Targets
1. Reduce the impact of solid waste generation.	Divert 68% of non-hazardous solid waste from the waste stream in FY14.
2. Reduce electricity use in buildings.	Reduce energy intensity of facilities by 37.5% by FY20 using FY03 as baseline (FY14 Target: 3% reduction from FY13).
3. Reduce vehicle fuel consumption and air emissions.	Reduce use of petroleum products by vehicle fleets by 30% by FY20 using 2005 as baseline (FY14 Target: 2% from FY13).
4. Reduce hazardous waste disposal.	Reduce contaminated absorbent (consorb) waste disposal by 5% in FY14.
5. Control invasive species.	Continue to monitor and control cane toad population in FY14.
6. Integrate radon data into GIS.	Integrate radon data into Geographic Information System (GIS) in FY14.

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FY13 Benchmark ECE

- Conducted by MCI COM on 3-year cycle
 - Camp Butler and MCAS Futenma: 23 Jan – 8 Feb 2013
 - Camp Mujuk: 11 – 15 Feb 2013
 - MCB Hawaii: 26 Mar – 5 Apr 2013
 - CATC Camp Fuji: 24 – 28 Mar 2014
 - MCAS Iwakuni: 1 – 11 Apr 2014
- Purpose of the ECE: Assess environmental compliance status and recommend appropriate corrective/preventive actions or improvements

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MCIPAC Environmental Compliance Status: MCB Butler

Protocol	Program	Class I	Class III	MP	Positive	Total
HW	Hazardous Waste	11	14	6	0	31
WA	Waste Water	6	5	1	0	12
PO	POL	7	0	3	1	11
HM	Hazardous Materials	6	3	1	0	10
AE	Air Emissions	2	4	2	0	8
PM	Pesticide Management	1	3	2	2	8
SO	Solid Waste	2	1	5	0	8
ST	Storage Tank	4	0	3	0	7
T3	Radon	0	3	1	0	4
EM	EMS	0	1	2	0	3
WQ	Water Quality	2	1	0	0	3
O1	NEPA	0	0	1	1	2
CR	Cultural Resources	0	0	1	0	1
NR	Natural Resources	0	0	1	0	1
O5	Program Management	0	1	0	0	1
O6	Waste Munitions	0	1	0	0	1
T1	PCB Management	0	1	0	0	1
T2	Asbestos Management	0	1	0	0	1
T4	LBP Management	0	0	1	0	1
Total Findings		41	39	30	4	114

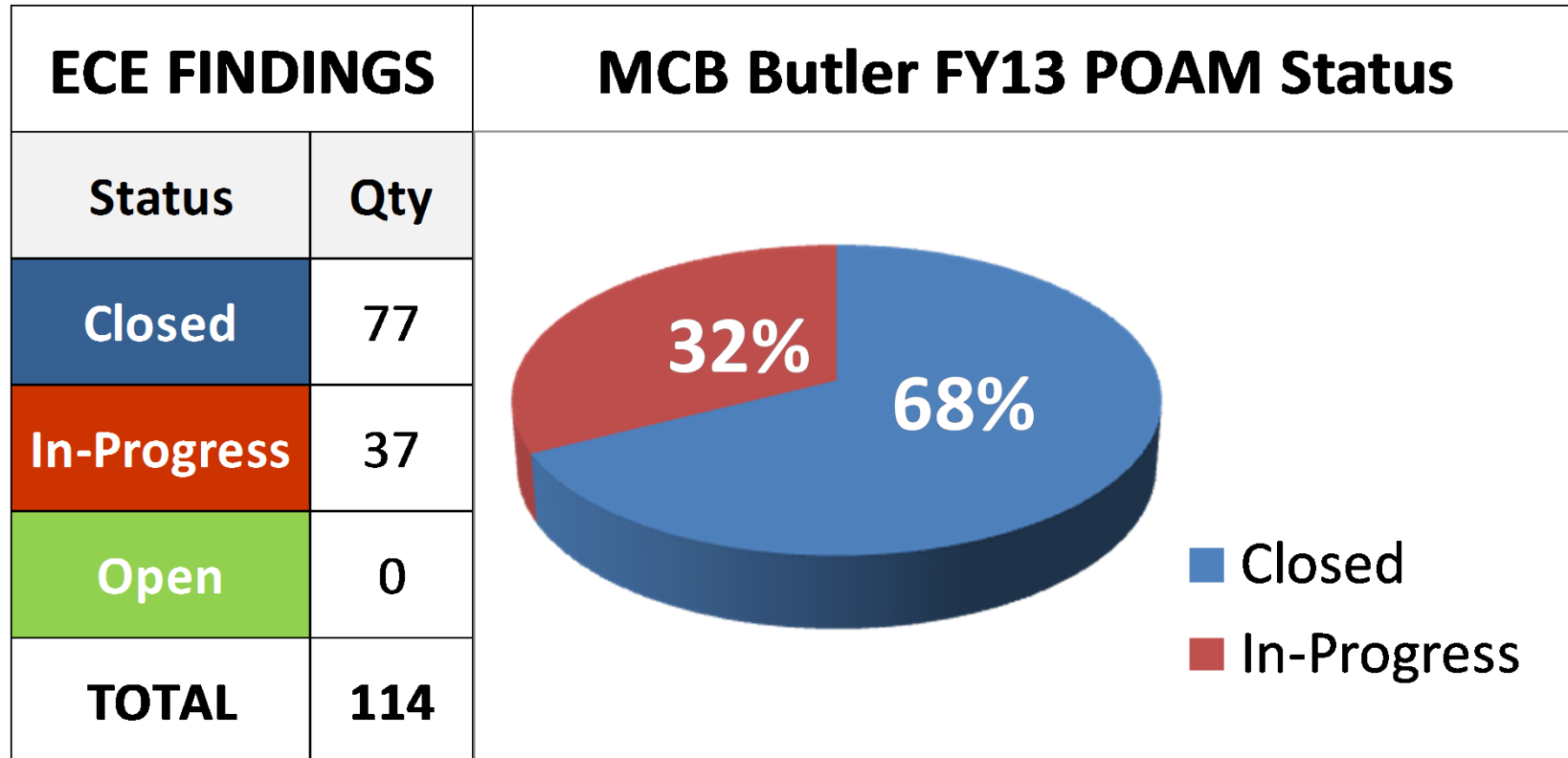
Compare FY09
130 Total findings
120 Class 1

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MCIPAC Environmental Compliance Status: MCB Butler



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MCIPAC Environmental Compliance Status:

MCB Hawaii

Protocol	Program	Class I	Class III	MP	Positive	Total
HM	Hazardous Materials	4	10	3	0	17
HW	Hazardous Waste	5	7	1	1	14
SO	Solid Waste	7	3	0	1	11
EM	EMS	0	3	5	0	8
PO	POL	5	0	2	0	7
CR	Cultural Resources	1	3	0	1	5
PM	Pesticide Management	0	4	0	0	4
WA	Wastewater	3	0	0	0	3
WQ	Water Quality	2	0	1	0	3
AE	Air Emissions	2	0	0	0	2
O1	NEPA	0	2	0	0	2
O5	Program Management	0	0	1	1	2
NR	Natural Resources	0	0	0	1	1
O2	Environmental Noise	0	1	0	0	1
O4	Pollution Prevention	0	0	0	1	1
ST	Storage Tank	0	1	0	0	1
Total Findings		29	34	13	6	82

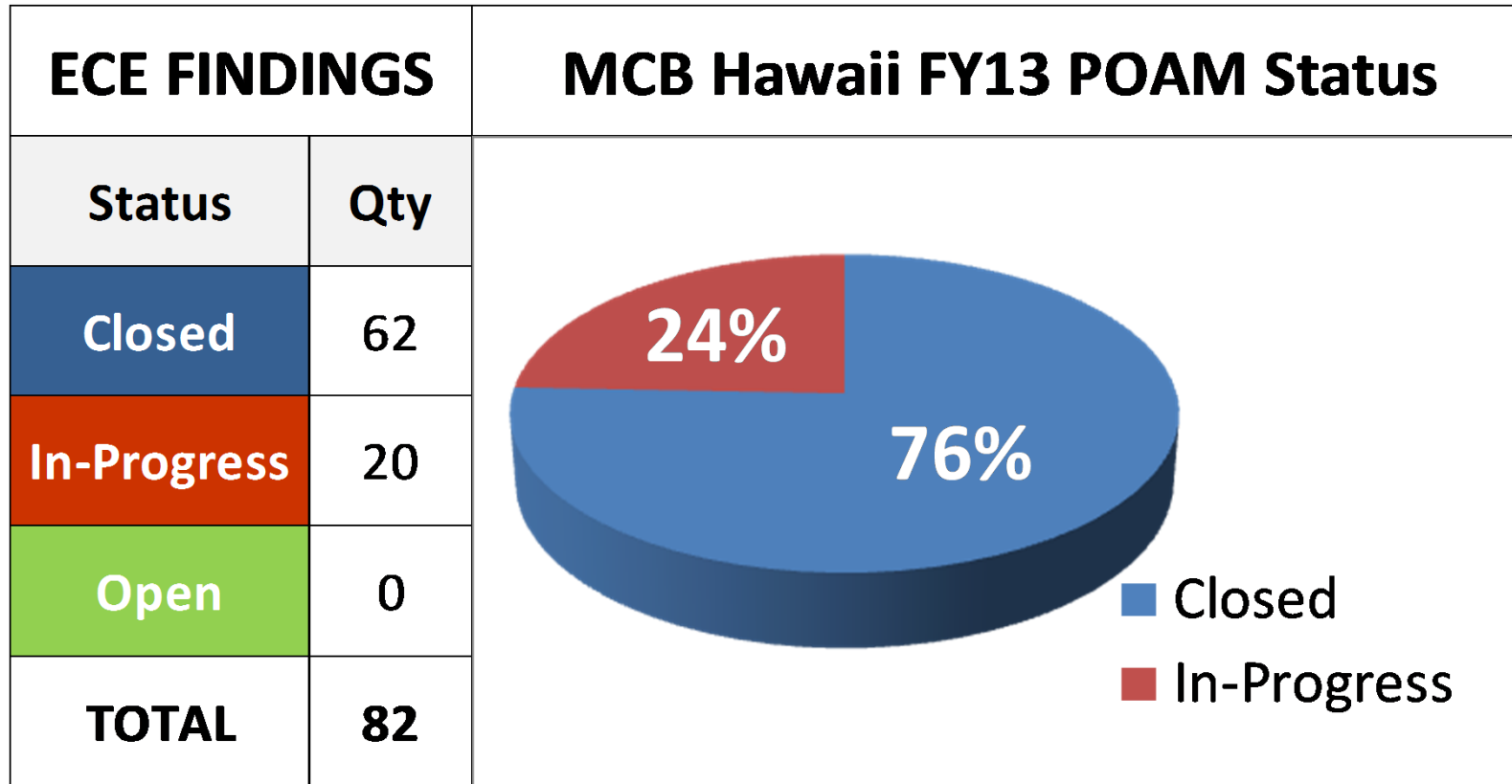
Compare FY09
95 Total findings
41 Class 1

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MCIPAC Environmental Compliance Status: ***MCB Hawaii***



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MCIPAC Environmental Compliance Status: *Camp Mujuk*

Protocol	Program	Class I	Class III	MP	Positive	Total
HW	Hazardous Waste	3	1	4	0	8
WQ	Water Quality	5	0	1	0	6
PO	POL	5	0	0	0	5
WA	Waste Water	4	0	1	0	5
PM	Pesticide Management	2	1	1	0	4
SO	Solid Waste	3	0	1	0	4
HM	Hazardous Materials	1	1	1	0	3
O5	Program Management	0	3	0	0	3
CR	Cultural Resources	1	0	0	0	1
EM	EMS	0	1	0	0	1
NR	Natural Resources	1	0	0	0	1
O4	Pollution Prevention	0	1	0	0	1
ST	Storage Tank	0	0	1	0	1
T1	PCB Management	1	0	0	0	1
T2	Asbestos Management	1	0	0	0	1
Total Findings		27	8	10	0	45

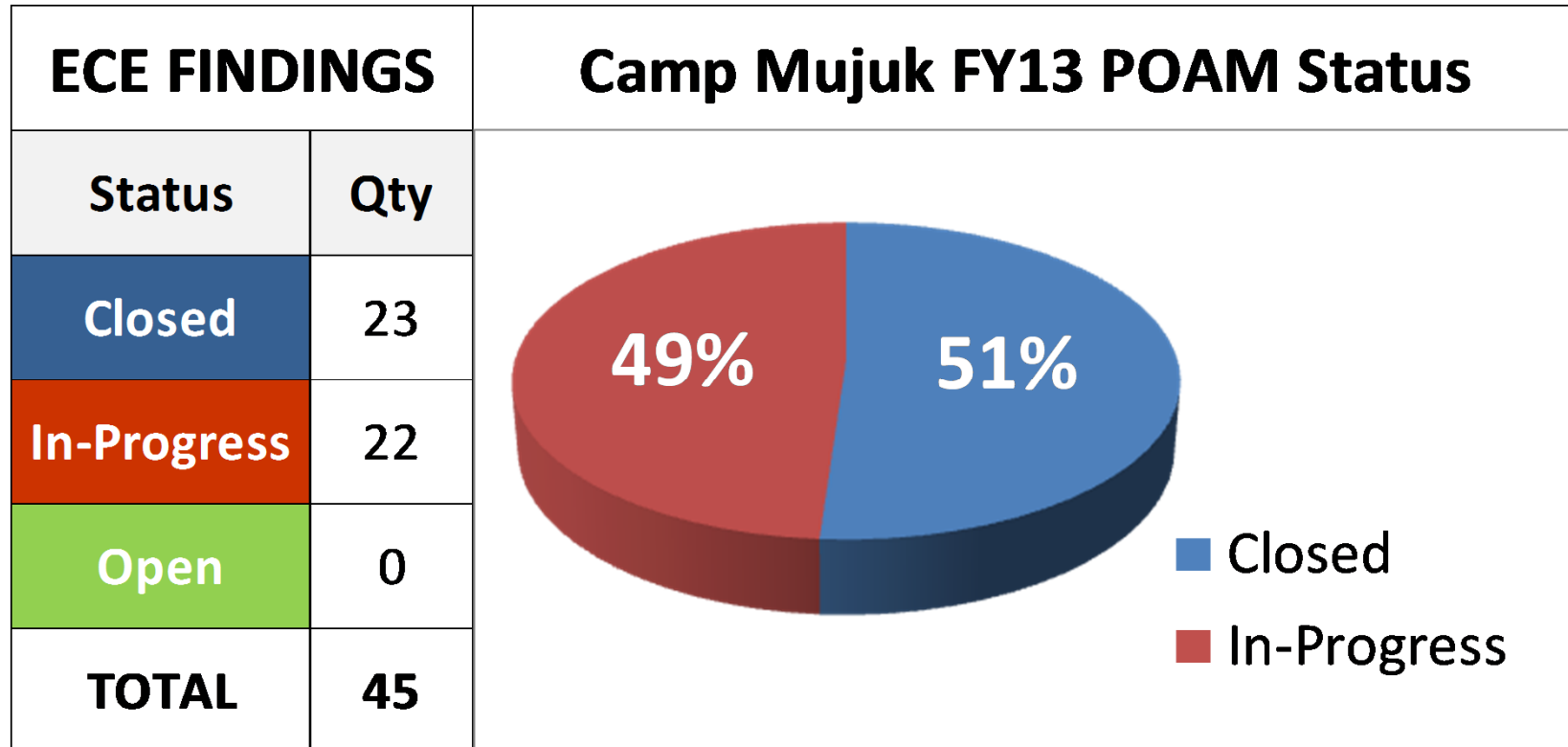
*Compare FY09
60 Total findings
21 Class 1*

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MCIPAC Environmental Compliance Status: Camp Mujuk



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How Commanders Can Help

- Communicate Environmental Policy
- Support FY14 Objectives and Targets and working groups
- Emphasize the following to your units:
 - Maintain clean, well managed hazardous material storage and hazardous waste accumulation areas
 - Clean small spills quickly; call 911 for large spills
 - Properly dispose of all waste prior to deployment
 - Support recycling program in living and work areas, especially in barracks
 - Conserve energy & water at work and barracks
- Maintain close contact with your camp/station environmental staff

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Questions



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